CONTENTS OF VOLUME IX.

Page

Adirondacks, Private Forestry in. 570
Ahern, Captain George P. (biography).... 331
Alabama, Tree Planting in..... 221
Alaskan Forests, To Map..... 326
Algeria, A Lesson from..... 117
A Matter for the East..... 472
American Forestry Association:
Directors Meet..... 163
Minneapolis Meeting..... 319, 369, 428
New Members 606
Notes..... 274
Notice of Meeting..... 517
Twenty-first Annual Meeting..... 20
American Fruit Culturist, The. John J. Thomas (review)..... 415
American Indian and Irrigation, The..... 230
American Park and Outdoor Art Association, Sixth Annual Meeting, 1902 (review).. 365
American Scientists Wanted..... 524
American Timbers, Strength of..... 567
Among Green Trees. Julia Ellen Rogers (review)..... 107
Annual Report of State Geologist of New Jersey, 1902 (review)..... 365
Another National Blunder (reprint)..... 258
Appalachian Forest Reserve..... 518
Appalachian Forest Reserve, For an..... 321
Appalachian Forest Reserve, The Proposed. Hon. James Wilson..... 332
Appalachian Mountain Club's Excursion... 271
Appropriations, 1903–1904..... 165
Artesian Basins, Idaho and Oregon..... 330
As Others See Us..... 169
Assiût Barrage, The. Thomas H. Means.. 15
Assuan Dam a Success..... 379
Australia, Irrigation Wells in..... 322
Axe, Evolution of the. Dr. John Gifford.. 343
Babylon and Chaldea, To Irrigate..... 320
Balsam Instead of Spruce..... 523
Bamboos in the United States. Leslie Harrison..... 400
Big Trees, To Preserve..... 571
Biltmore Students' Trip..... 59
Biological Reconnaissance in the Vicinity of Flathead Lake. Morton J. Elrod (review)..... 414
Birds of North and Middle America, The. Robert Ridgway (review)..... 209
Birds of Western United States, Handbook of. Florence Bailey..... 364
Bluing and Red Rot of Western Yellow Pine. Herman von Schrenck (review)..... 414

Page

Boothe, C. B. (biography) 11
Bowers, Hon. Edward A. (biography)..... 427
Bulletin from the Laboratories of the State University of Iowa, Vol. V, No. 3 (review)..... 415
Bulletin of the Department of Agriculture, Kingston, Jamaica (review)..... 606
Bureau of Animal Industry, Nineteenth Annual Report of the. 1902..... 561
Bureau of Soils, Operations of the. 276
Byers, William N. Obituary Resolutions.. 224
California, Forest Policy for 371
California, Lectures on Forestry in..... 378
Call of the Wild, The. Jack London (review)..... 414
Camp Fires in the Wilderness. E. W. Burt (review)..... 107
Canada, Forestry in 166
Canada, The Forests of. Henry S. Culver. 288
Children Protest..... 115
Clark, Hon. William A. (biography)..... 477
Climatology, Handbook of. Dr. Julius Hann (review)..... 313
Colorado Agricultural College..... 216
Colorado River, Irrigation Surveys on..... 268
Colorado River, Prospects for Irrigation Along the. Frederick H. Newell..... 72
Commercial Tree Studies..... 325
Congress, Forestry and Irrigation in... 44, 103, 150, 604
Connecticut Forestry Association Meets.... 275
Cornell Appropriation Vetoed..... 274
Cornell Forest School Discontinued..... 319
Courses in Forestry at Agricultural Colleges. Samuel B. Green..... 552
Colonization. Commander Booth-Tucker.. 86
Colonization, Relation of, to Irrigation. Commander Booth-Tucker..... 499
Cranberry Culture. Bristow Adams..... 547
Crataegus in Rochester. C. S. Sargent (review)..... 416
Crater Lake, National Park. J. Mayne Baltimore..... 236
Cuba, Opening for Sawmills in 275
Dam, Largest in the World..... 329
Dams Give Way..... 328
Dams, Two Unique..... 411
Date Palm in America, The..... 155
Dead Wood, Remove..... 328
Delegates, Three Classes of..... 470
Delta Barrage, The. Thomas H. Means... 79
Desert Growths, To Study..... 116

Page

Drouth, Spring, in the East. 267
Economics of Forestry. Dr. B. E. Fernow (review)..... 107
Educational Directory of South Carolina (review)..... 415
Eighth Annual Report of the Chief Fire Warden of Minnesota, 1902. Gen. C. C. Andrews (review)..... 416
Eleventh Biennial Report of the State Engineer of Colorado. Addison J. McCune (review)..... 416
English Arboricultural Society, Transactions of. Part II, Vol. 5 (review)..... 263
Eucalypts for Fuel..... 373
Farmers' Weirs. S. Fortier (review)..... 415
Farming below Sea Level Bristow Adams. 191
Fernow, Dr. Bernhard E. (biography)..... 173
Ferns, A Manual for the Northeastern States. Dr. Campbell E. Waters (review)..... 560
Field Work, Winter..... 574
Fire Law Defective, Maine..... 327
Flood Damage, Lessons from. 474
Flood on the Colorado..... 379
Flood Prevention in Indiana. C. J. Blanchard..... 556
Floods and Irrigation. Guy Elliott Mitchell. 354
Forage Conditions and Problems. David Griffiths (review)..... 414
Forestal Operation, An Interesting. Austin Cary..... 149
Forester and the Lumberman, The. Gifford Pinchot. 176
Foresters' Club at New Haven..... 567
Forest Experiment Station 167
Forest Fables..... 612
Forest Fire Problem, Studying the..... 277
Forest Fires :
  Minnesota's System of Preventing. Gen. C. C. Andrews 84
  Monthly Records..... 222, 309, 361, 412, 462, 512, 571
  To Control..... 4
  Vallombrosa..... 118
Forest Management in New Hampshire... 376
Forest Products, Foreign Trade in. 461
Forest Reserve News 60
Forest Reserve Policy..... 164
Forest Reserves :
  A New Use for..... 421
  Kicking About..... 420
  New 3, 324
  New Chief of..... 167
  Wanted..... 420
Forestry and Irrigation in the Year Book.. 326

Page

Forestry Quarterly (review)..... 107, 606
Forestry :
  At Biltmore. Dr. C. A. Schenck..... 543
  In Michigan, Progress of. Edwin A. Wildey..... 598
  In New Hampshire..... 47
  In Ohio 99
  In Our Island Possessions..... 574
  On the Farm. Gifford Pinchot. 432
  The Relation of, to Public Health. Professor William H. Brown..... 12
Forest Schools :
  Berea College..... 374
  Biltmore School..... 519
  Harvard..... 320
  Maine..... 575
  Michigan Agricultural College.... 223, 520
  Mont Alto..... 576
  Toronto University..... 116
  University of Maine..... 423
  University of Michigan.. 113, 166, 422, 519
  University of Nebraska..... 519
  Wellesley..... 112
  Yale..... 8, 271, 518
Forests, Economic Value of. Professor Ernest Bruncken..... 353
Forests of Maine, The 8
Forests of Upper India and Their Inhabitants. Thos. W. Webber (review)..... 157
Forest Work Outlined in Minnesota..... 267
Forty-fifth Annual Report State Horticultural Society of Missouri (review)..... 365
Game on Forest Reserves..... 116
Geography and Petrography of Crater Lake. J. S. Diller and H. B. Patton (review). 210
Geological Survey Note 524
Geological Survey's Maps Endorsed..... 377
German Comment on Our Methods.. 371
German Forestry, An Interesting Phase of. Austin Cary..... 554
German Method of Oak Reproduction, A. W. F. Hubbard 199
Giant Pine Tree, A..... 118
Gibson, Hon. Paris (biography) 119
Gila Indian Reservation, Water for the 578
Gouging the Government. 566
Government Soft Snaps..... 577
Graves, Prof. Henry S. (biography)..... 175
Grundriss der Wildbachverbauung. Vol. II. Ferdinand Wang. (Reviewed by W. F. Hubbard)..... 312
Gunnison Canyon, Survey of.. 476
Gunnison Tunnel, The. A. L. Fellows.... 530
Harvested His Own Planting..... 328
Hawaiian Forests. William L. Hall 582

Page

Hawaii, Forestry in. 273
Home Floriculture. Eben E. Rexford (review)..... 313
Home-seeker, Business Men Favor the ... 218
Homestead Idea, Defeating the. William E. Smythe..... 557
Honey Locust in Western Kansas, The. Royal S. Kellogg 387
Hong Kong, Forestry at. Mark Winchester. 280
Humid Areas, Irrigation in. Bristow Adams. Part I..... 285
Part II..... 346
Hydrographic Conference, The..... 520
Idaho, A Great Canal for..... 118
Improvement of Rivers, The. B. F. Thomas and D. A. Watt (review)..... 464
Inconsistency, The..... 522
Inconsistent Statesmen..... 522
India, Irrigation in..... 276
Indiana, Forestry in..... 59
Indian Reservations, Forestry on..... 7
Indians, Irrigation for..... 371
Investigations, Government..... 329
Iowa Trees, Prizes for Essays on 222
Irrigation, Boston's Interest in..... 60
Irrigation Canals, Pollution of 224
Irrigation Company, A Successful..... 49
Irrigation Congress, Forestry at the. 472
Irrigation Congress, The Eleventh National 375, 419, 452, 469, 478
Irrigation Convention Wanted..... 568
Irrigation Engineering. Herbert M. Wilson, C. E. (review)..... 606
Irrigation, Extent of... 97
Irrigation Institutions. Elwood Mead (review)..... 106
Irrigation in the East 4
Irrigation in the United States, General Practice of. Leslie Harrison..... 243
Irrigation Investigations on the North Platte. John E. Field..... 593
Irrigation Laws of Nevada, The. A. E. Chandler 541
Irrigation Makes Homes..... 474
Irrigation, New Wells for..... 330
Irrigation, New Ventures in..... 219
Irrigation on a Large Scale..... 520
Irrigation Plans, California..... 424
Irrigation, Public Funds for. 324
Irrigation, Relation of Federal and State Laws to. Morris Bien..... 588
Irrigation Returns..... 114
Irrigation Works to be Built..... 320
Irrigators, Practical Helps for..... 305
Italy, Forestry in 274

Page

Johnson, A. J. (obituary)..... 217
Journal of the Columbus Horticultural Society, 1902 (review) 366
Kansas, Forest Work in..... 217
Land Law, A Right..... 522
Land Laws, Eastern Interest in Repeal of.. 419
Land Laws, The, and Irrigation..... 373
Land Laws, The Repeal of Our Objectionable. Hon. Paris Gibson..... 484
Land of Little Rain, The. Mary Austin (review)..... 559
Land Stealing Must Stop. 565
Lands Withdrawn for Irrigation..... 269
Laws, State Irrigation..... 111, 167
Legislation, Recent State Forest..... 272
Letter File, From Our..... 566
Life of Timbers, To Lengthen..... 378
Life of Wood, To Prolong 330
Lima Beans, Irrigation of..... 253
Linear Perspective, Shadows and Reflections, Handbook on. Otto Fuchs (review)..... 365
Litigation, Irrigation and..... 524
Locust, The. William L. Hall..... 307
Long's Wood Folk Series. Wm. J. Long (review)..... 415
Luebkert, Otto. Change of Address 517
Lumber Dealers Endorse Forestry..... 113
Lumbering with Elephants in Burma. Leslie Harrison..... 139
Lumber Manufacturers Endorse Forestry.. 220
Lumbermen Favor Forestry..... 202
Luquillo Forest Reserve, Porto Rico, The Dr. John Gifford..... 537
Maple Sugar Industry, Forestry and. Col. William F. Fox..... 132
Massachusetts, Forest Extension in..... 375
Mead Goes Abroad..... 377
Medical and Surgical Outfit for Foresters, A. Dr. John Gifford..... 241
Mexico Must Irrigate..... 371
Michigan Forest Commission, The Work of the..... 7
Milk River Project, The. Cyrus C. Babb.. 600
Minnesota National Forest Reserve, The. Eugene S. Bruce. 489
Minnesota National Forest Reserve, Influence of, on the Locality. Herman S. Chapman 496
Missouri Botanical Garden, Fourteenth Annual Report of the (review)..... 560
Mosses with Hand Lens and Microscope, Part I. A. J. Grout (review)..... 415
Mountains of California, The. John Muir (review)..... 366

Page

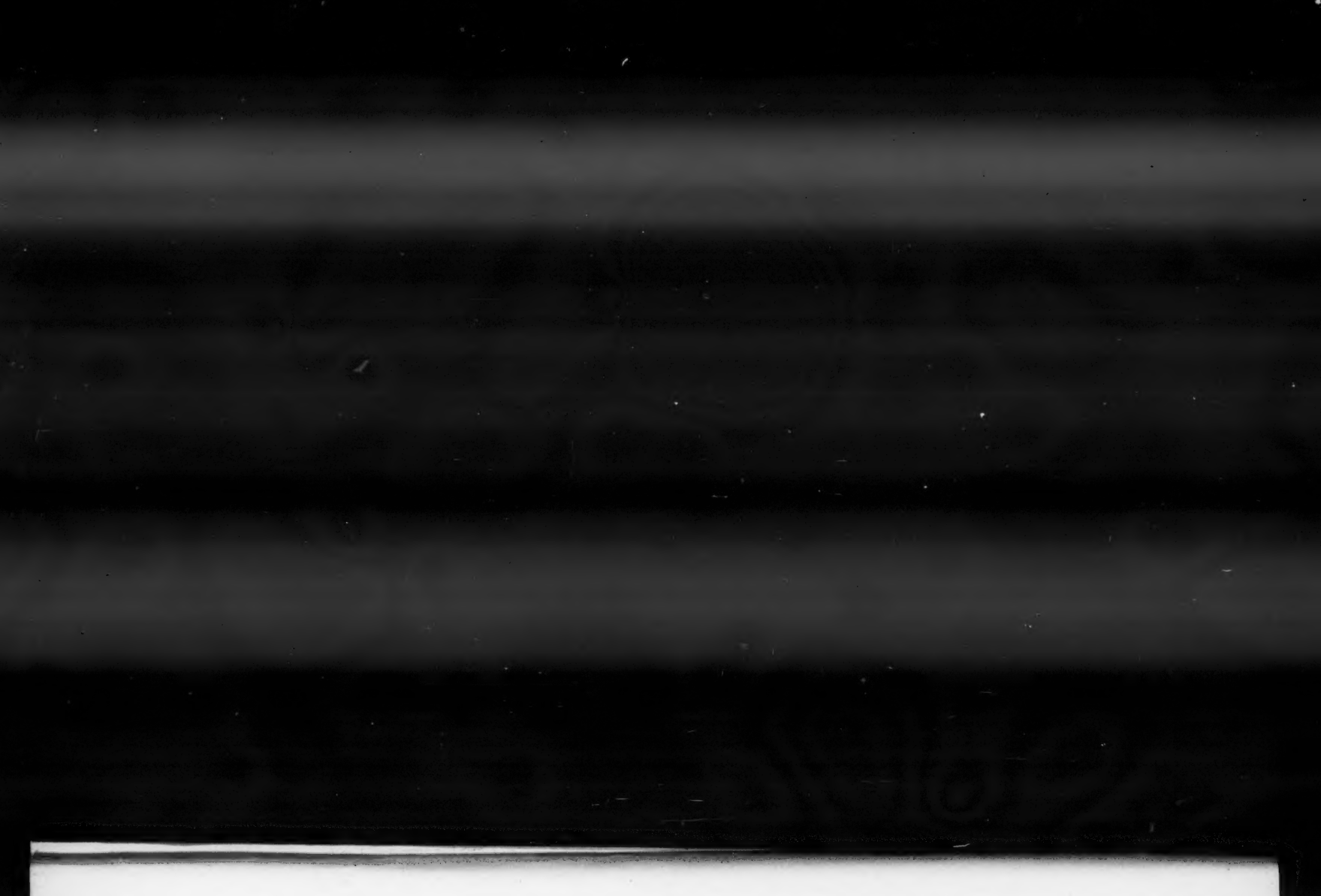
National Board of Trade, Report of Committee on Forestry and Irrigation..... 100
National Forestry, Progress in. J. S. Peyton. 194
National Irrigation, A Step Forward in.... 179
National Irrigation, Eastern Press Favors.. 374
National Irrigation Projects, New..... 378
Nebraska Sand-Hills, Foresting the. C A. Scott..... 454
Newell, Frederick H. (biography)..... 225
New Irrigation Company..... 114
New Mexico, Forestry in. 221, 570
New Mexico, Irrigation Projects in..... 526
New York Campaign, The 517
Nineteenth Annual Report of the Agricultural Experiment Station of the University of Wisconsin (review)..... 416
North American Mosses; Analytic Keys to Genera and Species. Charles Reid Barnes (review) 364
Norway Spruce in Iowa, The. L. H. Pammel. 34
North Dakota, Irrigation Work in. 527
North Dakota, Reclamation Service in.... 223
Noteworthy Tendency, A..... 163
Oklahoma Irrigation. A. S. Perry..... 297
Other Woods Wanted..... 330
Our Northern Shrubs. Harriet L. Keeler (review)..... 313
Owens River Valley..... 558
Pennsylvania Department of Forestry (review).. 210
Pennsylvania Forest Reserve, Addition to.. 326
People and Forest Reserves, The..... ... 58
Personal Changes in Bureau of Forestry... 323
Philippine Forestry, Impressions of.. 426
Philippine Forests, In the. Gifford Pinchot. 66
Pinchot Returns.. 3
Pine Lands of the South. H. C. Putnam.. 446
Points of Value..... 470
Porcupines Menace Forest..... 567
Possible Irrigation Projects. 142
Practical Forestry, The Importance of. President Theodore Roosevelt 169
Practical Irrigation a Success in Florida. . 435
Prairies, Silvicultural Possibilities of the. George L. Clothier..... 89
President's Message, The..... .. 580
Pressed Asbestos Instead of Wood. 117
Price, Overton W. (biography)..... ... 529
Principal Species of Wood, The: Their Characteristic Properties. C. H. Snow (review). 366
Principles of American Forestry. Prof. Samuel B. Green (review)..... 514
Private Forestry and Taxation. Ernest Bruncken..... 509

Page

Private Irrigation Works. 145
Profits of Irrigation in the East..... 165
Public Land Commission, A 565
Public Roads in New Jersey (review) 364
Pumping, Electric Power for. Guy Elliott Mitchell..... 385
Radical Forest Preservation 521
Railroads and Forestry..... 374
Range Hog, The, as a Forest Problem. Charles H. Shinn 295
Rangers Greet the President..... 269
Recent Forest Legislation 207
Reclamation, Alkali Land..... 380, 474
Reclamation Engineers, Meeting of..... . 471
Reclamation Service, First Report of... .. 422
Reclamation Service Notes..... 223, 274
Redwood, The..... 300
Redwood, Popularity of..... 118
Redwoods, Racing for..... ... 329
Reforestation in Minnesota 50
Reforestation, Possibilities of, in the White Pine Belt. Prof. Filibert Roth.... .. 505
Relations of Forestry to Zoölogy, The..... 580
Religion of the Ancients, The. Mrs. Gilbert McClurg. 35
Report of Irrigation Investigations, 1901. Elwood Mead (review).. 210
Report of Michigan Forestry Commission for 1902 (review)..... 365
Report of the Forester for 1902..... . 62
Report of the Secretary of Agriculture for 1903 (review)..... 606
Report New York Forest, Fish, and Game Commission for 1902 (review)..... 209
Reservoir, Steps Taken to Secure.... . . 324
Rhode Island, The Forests of..... 102
Rice, Cultivation of, in the United States. Leslie Harrison..... 335
Roosevelt Interested in Forestry and Irrigation 268
Roosevelt to the Irrigation Congress.... 475
Roth Leaves the Land Office 58
Roth, Prof. Filibert (biography)..... 579
Royal Scottish Arboricultural Society, Part I, Vol. 17, Transactions of (review).... 263
Rules for Logging in Minnesota. 525
Sacramento Valley, Irrigation in..... 528
San Bernardino Valley, Irrigation in. C. A. Wentworth 391
Sand Dunes, To Hold..... 379
Sarawak, Forestry in.... 370
Schenck, Dr. Carl A. (biography) 174
Seasoning of Timber. Dr. Herman von Schrenck (review)..... 415
Secretary of Interior, Important Action by. 215

Page

Seed-Collecting, Jack Pine. Ernest A. Sterling 27
Settlers, A Notice to. 4
Shifting Sand, Fixation of. Dr. John Gifford. 39
Shrubs of Wyoming, The Elias E. Nelson (review). 159
Silviculture. Albert Fron (review) 364
Smithsonian Institution, Annual Report of Board of Regents for Year Ending June 30, 1901 (review) 158
Smithsonian Institution, Annual Report of, for 1902 (review) 560
Smythe, William E. (biography) 381
Society of American Foresters 215
Sociological Aspects of the Irrigation Problem. Guy E. Mitchell 32
Sound Advice 421
South Africa and Forestry 219
Special Articles 517
Special Papers. 472
Stanford, Valuable Library for 373
Story of the Trapper, The. A. C. Laut (review) 366
St. Louis Exposition, The. 57
California Exhibit at. 376
Forest Building at. 327
Irrigation Exhibit at 376
Louisiana Forestry at. 327
Stream-Flow and Forests. 57
Sugar Beet, Experiments in Culture of, in Nebraska (review) 514
Sugar Irrigation in Hawaii. Bristow Adams. 122
Suits, Government Timber 373
Sumatra Tobacco, Irrigation of. C. J. Blanchard. 292
Summer School of Forestry, California 424
Swindle, A Sanctimonious 526
Tennessee, Conservative Lumbering in 247
The Forest. Stewart Edward White (review). 559
The Homemaker or the Speculator? William E. Smythe. 442
The Woodlot. Henry Solon Graves (review). 464
Three Sisters, The Passing of the 322
Timber Supply, Outlook of in the United States. Dr. B. E. Fernow. I 74
II 226
Timidity Founded on Ignorance 573
Tonto Reservoir Practically Assured. 251
Tonto Storage Reservoir will be Built. 370
Tree Planting. 325
Tree Planting on Streets and Highways. Col. Wm. F. Fox (review) 414

Page

Trees, Shrubs, and Vines of Northeastern United States. H. E. Parkhurst (review). 366
Trees Turned to Opal. 572
Truckee Valley Irrigation Project, The 424
Turpentine—Cheaper Production. 5
Turpentine Industry. 568
Turpentine Orcharding (Dr. Herty) 127
Twenty-third Annual Report of New Jersey State Agricultural Experiment Station (review) 365
Unalaska Spruce Plantation, The. Bristow Adams 382
Uncompahgre Project, Prospects of. 374
Uncompahgre Water Consumers' Act. . 278
Underground Waters, Motions of. 156
University of California. Report of Agricultural Experiment Station at (review) 158
Utah Farmers' Institutes. Annual No. 6 (review) 263
Walsh, Thomas F. (biography) 65
Warren, Hon. Francis E. (biography) 279
Washington (D. C.) Correspondents at Ogden. 472
Washington, The Practice of Irrigation in. 458
Water, For Pure 569
Water Fowl Family, The. Sanford, Bishop, and Van Dyke (review) 464
Water Power in Adirondacks. 277
In California. 7
In Maine. 572
Water Problems, To Solve 328
Water Resources of Kings River, Cal. Arthur W. Drake 405
Water, Saving the. 112
Water Supply, Plans to Equalize. 574
Water Supply Problems in Kansas 575
Water Supply, To Conserve the. 324
Water Transmission, A Long. 377
Water Users to Buy Plant. 321
Western Development, Effect of, on the East. Guy Elliott Mitchell. 205
Western Irrigation Interests the East 320
West Point, Forestry at 372
White Mountains, In the 572
White Pine in New England 322
Wood. G. S. Boulger (review) 313
Woodlots in Southern New England, Forestry for. R. T. Fisher 120
Woodlot, The, in Michigan. F. G. Miller. 187
Wood Waste, Uses for 329
Works Bill, The. 369
World's Fair, Forestry at the. 591
World's Fair, Irrigation at the. 575
Yazoo Delta, Problems of the. 355